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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/664,569 | 09/19/2003 | Peter Froeslev | 6495-36 | 4587 |
| 7590 | 09/07/2006 | | EXAMINER | |
| Richard R. Michaud McCormick, Paulting & Huber LLP CityPlace II 185 Asylum Street Hartford, CT 06103 | | | KOCZO JR, MICHAEL | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 3746 | |
| DATE MAILED: 09/07/2006 | | | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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|------------------------------|--------------------|-----------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 10/664,569 | FROESLEV ET AL. |
| | Examiner | Art Unit |
| | Michael Koczo, Jr. | 3746 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-14 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 19 September 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____ . |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>09-19-03;11-08-04</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| | 6) <input type="checkbox"/> Other: ____ . |

DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: numeral 33 (para. 0043, line 6).

The drawings are objected to under 37 CFR 1.83(a) because they fail to show the baffles as described in the specification in para. 0045. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d).

The drawings are objected to under 37 CFR 1.83(a).

The drawings must show every feature of the invention specified in the claims. Therefore, the structure of claims 5 and 7 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an

application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 to 14 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: the valve plate, suction gas channel, discharge chamber and retainer element are recited merely in a cataloguing manner without any structural and functional relationship.

Claims 1 to 14 are also rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, reciting that the cylinder head arrangement is “particularly” for an hermetically enclosed refrigerant compressor raises questions regarding the scope of the claims. It is also not clear what structure forms the suction gas channel.

In claims 2 and 3, there is no reference frame for “radial” and “radially”.

In claim 4, “large” is an unbased comparison.

In claim 5, in what structure is the suction opening formed?

Thorough revision of the claims is required in order to render them definite in form according to the statute.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 to 4, 6, 7 and 12 to 14, as understood, are rejected under 35 U.S.C. 102(b) as being anticipated by either of Chambers '125 or Chambers '774.

In Chambers '123, element 118 is readable as a valve plate and element 138 is readable as a retaining element. Note radially extending suction gas channel 122 which is on one side of the retaining element and the discharge chamber 142 is on the other side of the retaining element.

In Chambers '774, element 24 is readable as a valve plate and element 38 is readable as a retaining element. Note radially extending suction gas channel 28 which is on one side of the retaining element and the discharge chamber is on the other side of the retaining element.

Claims 1 to 4, 6 to 9 and 12 to 14, as understood, are rejected under 35 U.S.C. 102(b) as being anticipated by either of Ayling (US 3,221,064) or Gerteis (US 2,935,248).

In Ayling, element 26 is readable as a valve plate and element 70 is readable as a retaining element. Note radially extending suction gas channel 35 which is on one side of the retaining element and the discharge chamber 90 is on the other side of the retaining element.

In Gerteis, element 14 is readable as a valve plate and element 15 is readable as a retaining element. Note radially extending suction gas channel 26 which is on one side of the retaining element and the discharge chamber is on the other side of the retaining element.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 5, as understood, is rejected under 35 U.S.C. 103(a) as being unpatentable over either of Chambers '125 or Rousseau (US 6,692,243) in view of Engelman. Rousseau teaches rounding the edges of openings in order to smooth the flow therethrough. Figure 29 of Engelman shows a central suction opening having rounded edges which will inherently smooth the flow therethrough. In view of these teachings, it would have been obvious to round the edges of the suction opening of Chambers '125.

Claims 10 and 11, as understood, are rejected under 35 U.S.C. 103(a) as being unpatentable over either of Gerteis or Ayling in view of JP8-247021. The Japanese reference discloses forming a valve plate of ceramic material. Ceramic material is known for its hardness and durability. In view of this teaching, it would have been obvious to form the valve plate of either of Gerteis or Ayling of a ceramic material.

Information Disclosure Statement

The information disclosure statement filed 09-19-03 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry relating to patent applications in general should be directed to the Patent Assistance Center at 1-800-786-9199.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Koczo, Jr. whose telephone number is 571-272-4830. The examiner can normally be reached on M-Th; 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony D. Stashick can be reached at 571-272-4561. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael Koczo, Jr.
Primary Examiner
Art Unit 3746